Register your product and get support at

www.philips.com/welcome

22PFL2978H/12

User manual

Mode d'emploi

Manuale utente

Manual del usuario

Manual do utilizador

Gebruikershandleiding

PHILIPS

Contents

Important **1**
Use your TV **2**
Remote control 2
Notifications, features and accessories 3
Energy efficiency 3
TV scroll button 3
Connecting power 3
Switching on/off 3
First time installation 3
Media browser menu 4
Cable installation 4
Satellite installation (*) 4
Play media files from a USB drive 4
Recording a program 4
Timeshift recording 5
Instant recording 5
Watch recorded programs 5
Change TV settings **5**
Display options 5
Sound options 5
Configuring parental settings 5
Electronic program guide (EPG) 5
Program options 6
Update your TV **6**
Troubleshooting **6**
Specifications **7**

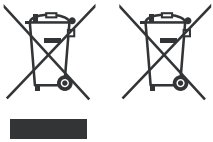
Important

'Read and understand all information in the accompanying Safety booklet before you install and use your TV. If damage is caused by failure to follow these instructions, the warranty does not apply.'

Disposal of old Equipment and Batteries

Please do not disposed this TV or battery as general household waste. If you want to dispose this product or battery, please consider the collection systems or facilities for appropriate recycling.

Notice: The sign Pb below the symbol for batteries indicates that this battery contains lead.



Products **Battery**

Use your TV

Remote control

NOTE: The Remote Control range is approximately 7m / 23ft.

Teletext

Press **TEXT** button to enter. Press again to activate mix mode. Press once more to exit. Follow the instructions displayed on digital teletext screen.

Digital teletext (for UK only)

Press **TEXT** button to view digital teletext information. Operate it with the colored buttons, cursor buttons and **OK** button. The operation method may differ depending on the contents of the digital teletext. Follow the instructions displayed on digital teletext screen.

1. Standby
2. Stop (in Media Browser mode)
3. Play (in Media Browser mode) / Play-Slideshow (in Media Browser)
4. Rapid reverse (in Media Browser mode)
5. AV / Source selection
6. TV
7. Electronic program guide(in DVB channels)
8. Navigation buttons (Up/Down/Left/Right)
9. Program recording
10. Program Down / Page up
11. Mute
12. Volume Down
13. Green button / List Schedule (in EPG) / Tag/Untag All (in favorite list)
14. Red button
15. Numeric buttons
16. Subtitle on-off (in DVB channels)
17. Teletext / Mix (in TXT mode)
18. Blue button/Edit Channel List/Filter (in Favorite List and EPG)
19. Yellow button/Timeline Schedule(in EPG)
20. Volume Up
21. Program Up / Page down
22. Back/ Return / Index page (in TXT mode)/ Swap
23. Mono/Stereo - Dual I-II / Current Language (*) (in DVB channels)
24. Okay (Confi rm) / Hold (in TXT mode) / Channel List
25. Info / Reveal (in TXT mode)
26. Menu on-off / Exit (in Media Browser mode)
27. Picture zoom
28. Rapid advance (in Media Browser mode)
29. Pause (in Media Browser mode) / Time shift recording

Notifications, features and accessories

Energy efficiency

This TV is designed with energy efficieny features:

- **Power save mode (ECO or On/Off(*)):** You can apply a combination of energy saving picture settings. While you watch TV, press the Menu button and, the Power Save Mode settings can be found in the 'Picture' section of the Main Menu.
- **Picture off mode(**):** If you only want to listen to audio from the TV, you can switch off the display. Other functions continue to operate normally. While you watch TV, press Menu and select Picture, and from there select 'Picture off' under the Power Save Mode option.

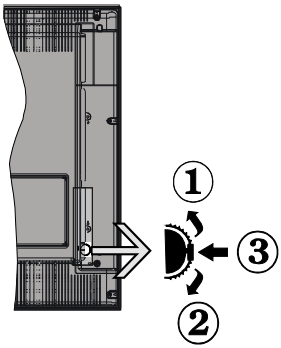
Note: Disconnect your TV from the mains plug in case your TV is going to be inactive for a long time.

(*) for 22PFL2978H/12 only

(**) for 22PFL2978K/12 only

TV scroll button

The TV Scroll button on the side of the TV allows you to control the volume, change channels and put the TV into standby.



To change volume: Increase the volume by scrolling up. Decrease the volume by scrolling down.

To change channel:

1. Press the middle of the scroll button, the channel information banner will appear on screen.

2. Scroll through the stored channels by pushing the button up or down.

To change source:

1. Press the middle of the button twice, the source list will appear on screen.

2. Scroll through the available sources by pushing the button up or down.

To switch the TV to standby: Press the middle of the button down and hold it down for a few seconds, the TV will turn into standby mode.

Connecting power

Power Adapter connection

The TV set is designed to operate on 12 V DC. For this, an adaptor is used which gives 12 V voltage. Connect this adaptor to a system that supplies 110-240V AC,50/60Hz.

Cigarette lighter plug connection

Connect the cigarette lighter plug cable to the cigarette lighter socket of your car or a cable with clips to the battery of car, making sure to observe the correct polarity.

Plug the other side of 12 volt cable to DC 12 socket at the back of the TV. Then the standby LED lights up.

ATTENTION: 12 V Input :

Switching on/off

To switch the TV on

To switch on the TV from standby mode either:

- Press the "⏻" button, **CH- or CH+** or a numeric button on the remote control.
- Press the side function switch until the TV comes on from standby.

Note: If the TV has been left on and not been operated for a while, the TV will go into standby. When you next switch-on, the following message will be displayed. "**Standby Cause No Operation**" Press **OK** to continue.

To switch the TV off

- Press the "⏻" button on the remote control or press the side function switch until the TV switches into standby mode.

Note: To power down the TV completely, unplug the power cord from the mains socket.

First time installation

You will see the language selection screen when you first turn on your TV. Select your preferred language and press OK followed by the selection Home Mode/ Shop Mode.

You can set up your TV by following the First Time Installation (FTI) screen with the following selections.

Aerial installation

Select the **AERIAL** option from the **Search Type** screen to search for terrestrial digital TV broadcasts.

Optional a channel list, which is generated by LCN (*), will be displayed on screen when the search is over. Select "Yes" and press OK to store this list.

Press "🏠" button to quit channel list and watch TV.

(*) LCN is the Logical Channel Number system that organizes available broadcasts in accordance with a recognizable channel sequence (if available).

Media browser menu

Loop/Shuffle Mode Operation	
Start playback with ▶ and activate	TV plays next file and loop the list.
Start playback with OK and activate	File will be played in a loop (repeat).
Start playback with OK/ ▶ and activate	File will be played in a shuffle.
Start playback with OK/ ▶ and activate	File playback will continue randomly and random playback will continue.

Cable installation

Select **CABLE** option and press **OK** on the remote control. For automatic installation in case your Cable network supplier supports a Network-ID based installation (e.g. Unitymedia), select **YES** in following screen and press OK.

In case your Cable network supplier does not support a Network-ID based installation please select "**NO**", press **OK** and follow the instruction on the screen.

You can also select frequency ranges from this screen.

Enter the frequency range manually by using the numeric button.

Note: Searching duration will change depending on the selected search step.

Satellite installation (*)

If you select **Satellite** option from the **Search Type** screen, you can set a satellite and watch satellite channels. When you select Satellite installation, **Antenna Type** menu will be displayed.

There are three types of antenna selection. You can select **Antenna type** as **Direct**, **Unicable** or **DiSEqC** switch by using "◀" or "▶" buttons.

(*) It is for 22PFL2978K/12 only

Direct: If you have a single receiver and a direct satellite dish, select this antenna type. After selecting **Direct**, another menu screen will be displayed. Select an available satellite by using cursor left or cursor right, after your selection you have 2 possibilities to continue installation, a full or a quick installation:

1. Press the green button and select "**NO**" followed by "**OK**" to perform a full scan and search for all available services on the selected satellite.
2. Press the green button and select "**YES**" followed by "**OK**" to load a predefined channel list and confirm with (very quick installation, all main services per country installed).

Unicable: If you have multiple receivers and an unicable system, select this antenna type. Press **OK** to continue. Configure settings by following instructions on the screen. For full or quick installation follow the instructions under "Direct".

DiSEqC switch: If you have multiple satellite dishes and a **DiSEqC switch**, select this antenna type. After selecting DiSEqC switch, another menu screen will be displayed. You can set four **DiSEqC** options (if available). Press **GREEN** button to scan all satellites or press **YELLOW** button to scan only the highlighted satellite. To save and exit press **OK** button.

Play media files from a USB drive

You can play photo, music, and movie files stored on a USB disk by connecting it to your TV. Connect a USB disk to one of the USB inputs located on the side of the TV. Pressing the "" button while in the Media Browser mode will access the Picture, Sound and Settings menu options. Pressing the "" button again will exit from this screen. You can set your Media Browser preferences by using the Settings Menu.

IMPORTANT! Back up your files before making any connections to the TV. The manufacturer will not be responsible for any file damage or data loss. Certain types of USB devices, for example, MP3 players or USB hard disk drives/memory sticks may not be compatible with this TV.

Recording a program

Please format your USB flash drive / device before first use. To do this; press OK while Format Disk is highlighted on screen and enter your pin number. The factory default pin number is "0000".

- To record a program, connect a USB flash drive while your TV is turned off. Recording function will be available once your TV is switched back on.
- The connected USB flash drives / devices must have at least 1 gigabytes (1gb) of free space and USB 2.0 compatibility. An error message will be displayed if these conditions are not met.
- By default, recorded programs are stored on the connected USB flash drive / device. You may store these programs on a computer as well, although you can play them only on your TV.
- The TV supports FAT32 and NTFS disk formatting but recording will not be available with NTFS formatted disks.

Timeshift recording

Press PAUSE while watching a broadcast to activate timeshifting mode.

- In timeshifting mode, the program is paused and simultaneously recorded to the connected USB disk.
- Press ▶ (PLAY) button again to resume the paused program from where you stopped. Press the STOP button to stop timeshift recording and return to the live broadcast.

Note: Time shift cannot be used while in radio mode.

Note:You cannot use the time shift fast reverse feature before advancing the playback with the fast forward option.

Instant recording

Press button to start recording an event instantly while watching a program. You can press button on the remote control again to record the next event on the EPG. In this case, an OSD will be displayed, indicating the programed events for recording. Press ■ (STOP) button to cancel instant recording.

Note:You cannot switch broadcasts or view the Media Browser during the recording mode. While recording a program or during the time shifting, a warning message appears on the screen if your USB device speed is not sufficient.

Watch recorded programs

Select the **Recordings library** from the **Media browse**r menu. Select a recorded item from the list (if previously recorded). Press the **OK** button to view the **Play options**. Select an option then press **OK** button.

Note: Viewing main menu and menu items will not be available during the playback.

Press the ■ (STOP) button to stop a playback and return to the Recordings Library.

Slow forward

If you press ❚❚ (PAUSE) button while watching recorded programs, the slow forward feature will be available. You can use ▶▶ button to slow forward. Pressing ▶▶ button consecutively will change slow forwarding speed.

Change TV settings

To access the options listed below;

1- Press the Menu button

2- Highlight your selection

3- Press OK to confirm

Display options

Mode: Changes the picture mode to one of the following: Cinema, Game, Sport**(*)**, Dynamic and Natural.

(*) for 22PFL2978K/12 only

Contrast: Sets the light and dark values of the image.

Brightness: Sets the brightness value of the image.

Sharpness: Sets the sharpness value. A high sharpness value may result in a clearer, crisper image depending on the content.

Color: Sets the color value.

Backlight: Controls the brightness of the backlight.

Noise reduction: Reduces the noise level in the image.

Sound options

Volume: Adjusts volume level.

Equalizer: Changes the equalizer mode.

Balance: Adjusts whether the sound is coming mainly from the right or left speakers.

Headphone: Sets headphone volume.

Sound mode: Sets the preferred sound mode.

AVL: Sets a limit to maximum volume output.

Headphone/Lineout(for 22PFL2978K/12 only): This option is set to headphone if you have headphones or lineout if you have external amplifier connected to the headphone jack.

Dynamic bass: Enables or disables the Dynamic Bass. Increases the range of bass.

Surround sound(for 22PFL2978K/12 only): Surround sound mode can be changed as On or Off.

Digital Out: Sets digital out audio type.

Configuring parental settings

This feature is for restricting access to selected content. It is controlled by a pin number defined by you. Factory default is “0000”.

Menu lock (optional): Menu lock setting enables or disables the menu access.

Maturity lock (optional): When set, this option gets the maturity information from the broadcast and if this maturity level is disabled, disables access to the broadcast.

Child lock (optional): When Child Lock is set, the TV can only be controlled by the remote control. In this case the control panel buttons will not work.

Set PIN: Defines a new PIN number.

Note: If the Country option is set to France, you can use 4725 as the default code.

Electronic program guide (EPG)

Some, but not all channels send information about the current and next programs. Press the “ ” button to view the EPG menu.

Up/Down/Left/Right: Navigate EPG.

OK: Displays program options.

INFO: Displays, in detailed, information on the program selected.

GREEN: Switches to List Schedule EPG.

YELLOW: Switches to Timeline Schedule EPG.

BLUE: Displays filtering options.

: The TV will start to record the selected program. You can press again to stop the recording.

Program options

In **EPG** menu, press the **OK** button to enter the **Event Options** menu.

Select Channel

In **EPG** menu, using this option, you can switch to the selected channel.

Record / Delete record timer

After you have selected a program in the **EPG** menu, press **OK**. Select the **Record** option and press **OK**. After this operation, a recording will be scheduled for the selected program.

Set Timer / Delete timer

After you have selected a program in the **EPG** menu, press **OK**. Select the **Set Timer on Event** option and press **OK**. You can set a timer for future programs.

Update your TV

Navigate on your main menu, choose settings, the version of the current software is displayed.

Caution: Do not install a lower version of software than the current version installed on your product. TP Vision cannot be held liable or be made responsible for problems caused by a software downgrade.

Update with USB

Before you update the software, make sure that you have:

• A USB storage device that has at least 256 megabytes of storage space, is FAT or DOS formatted and has its write protection disabled.

• Access to a computer with a USB connector and Internet access

Navigate to www.philips.com/support, and follow the software update instructions.

Automatic update from digital broadcast

While the TV is connected to an aerial signal. If Automatic scanning in the Upgrade Options menu is enabled, the TV wakes up at 03:00 and searches broadcast channels for new software upgrades. If new software is found and downloaded successfully, the next time the TV powers up , it will have the new software version.

Note: If the TV fails to come on after the upgrade unplug the TV for 2 minutes and plug in again.

Troubleshooting

TV will not turn on

Make sure the power cord is plugged in securely to wall outlet. The batteries in the remote control may be exhausted. Press the Power button on the TV.

Poor picture

- Have you selected the correct TV system?
- Low signal level can cause picture distortion.Please check antenna access.
- Check if you have entered the correct channel frequency if you have done manual tuning.
- The picture quality may degrade when two devices are connected to the TV at the same time. In such a case, disconnect one of the devices.

No picture

- No Picture means that your TV is not receiving a transmission. Have you selected the correct button on the remote control? Try once more. Also make sure the correct input source has been selected.
- Is the antenna connected properly?
- Is the antenna cable damaged?
- Are suitable plugs used to connect the antenna?
- If you are in doubt, consult your dealer.

No sound

- Has the TV been set to mute? To cancel mute, press the "🔇" button, or increase the volume level.
- Sound is coming from only one speaker. Is the balance set to one extreme? See Sound Menu section.

Remote control - does not operate

- The batteries may be exhausted. Replace the bateries.

Input sources - can not be selected

- If you cannot select an input source, it is possible that no device is connected. if not
- Check the AV cables and connections if you have tried to connect a device.

Recording unavailable

To record a programme, you should first connect a USB disk to your TV while the TV is switched off. You should then switch on the TV to enable recording feature. If you cannot record, try switching off the TV and then re-inserting the USB device.

USB is too slow

If a "USB is too slow" message is displayed on the screen while starting a recording, try restarting the recording. If you still get the same error, it is possible that your USB disk does not meet the speed requirements. Try connecting another USB disk.

Specifications

PC input typical display modes

The following table is an illustration of some of the typical video display modes.

Index	Resolution	Frequency
1	640x350p	60 Hz
2	640x400p	60 Hz
3	1024x768	60 Hz
4	1280x768	60 Hz
5	1360x768	60 Hz
6	720x400	60 Hz
7	800x600	56 Hz
8	800x600	60 Hz
9	1024x768	60 Hz
10	1024x768	66 Hz
11	1280x768	60 Hz
12	1360x768	60 Hz
13	1280x1024	60 Hz
14	1280x960	60 Hz
15	1280x1024	60 Hz
16	1400x1050	60 Hz
17	1600x1200	60 Hz
18	1920x1080	60 Hz

AV and HDMI signal compatibility

Source	Supported Signals		Available
EXT (SCART)	PAL 50/60		O
	NTSC 60		O
	RGB 50		O
	RGB 60		O
Side AV	PAL 50/60		O
	NTSC 60		O
PC/ YPbPr	480I, 480P	60Hz	O
	576I, 576P	50Hz	O
	720P	50Hz,60Hz	O
	1080I	50Hz,60Hz	O
	1080P	50Hz,60Hz	O
HDMI1 HDMI2(*)	480I	60Hz	O
	480P	60Hz	O
	576I, 576P	50Hz	O
	720P	50Hz,60Hz	O
	1080I	50Hz,60Hz	O
	1080P	24Hz, 25Hz 30Hz, 50Hz, 60Hz	O

(*) for 22PFL2978K/12 only

TV Broadcasting	PAL B/G D/K K
Receiving Channels	VHF (BAND I/III) - UHF (BAND U) - HYPERBAND
Number of Preset Channels	1000 (for 22PFL2978H/12) 10000 (for 22PFL2978K/12)
Channel Indicator	On Screen Display
RF Aerial Input	75 Ohm (unbalanced)
Operating Voltage	110-240V AC, 50/60 Hz.
Audio	German+Nicam Stereo
Audio Output Power (WRMS.) (10% THD)	2x2,5 W
Power Consumption	47 W
Weight	3,40
TV Dimensions DxLxH (with foot)	134 x 516 x 352
TV Dimensions DxLxH (without foot)	35 x 516 x 317
Display	16/9_22" inch
Operation temperature and operation humidity:	5ºC up to 45ºC, 85% humidity max

Supported file formats in USB mode (for 22PFL2978K/12)

Media	Extension	Format		Notes
		Video	Audio	
Movie	dat, mpg, mpeg	Mpeg1,2	MPEG1/2 Layer 1/2/3, AAC/HEAAC, AC3/EAC3, LPCM/ADPCM	1080P@ 30fps 50Mbit/ sec
	dat, mpg, mpeg	MPEG2 ,H.264, VC1, AVS, MVC	MPEG1/2 Layer 1/2/3, AAC/HEAAC, AC3/EAC3, LPCM/ADPCM	H.264:1080Px2@25fps 1080P@ 50fps MVC: 1080P@ 24fps Other: 1080P@ 30fps" 50Mbit/ sec
	.vob	MPEG2	MPEG1/2 Layer 1/2/3, AC3, LPCM	1080P@ 30fps 50Mbit/ sec
	.mkv	MPEG1,2,4, XviD, H.264, VC1,WMV3, Motion JPEG	MPEG1/2 Layer 1/2/3, AAC/HEAAC, AC3/EAC3, LPCM	H.264:1080Px2@25fps 1080P@ 50fps Other:1080P@ 30fps 50Mbit/sec
	.mp4 .mov		MPEG1/2 Layer 3, AAC/HEAAC, AC3/EAC3, LPCM/ADPCM	H.264: 1080Px2@25fps 1080P@ 50fps Other: 1080P@ 30fps 50Mbit/ sec
	.avi	MPEG1,2,4 Xvid H.264, VC1,WMV3, Sorenson H.263 Motion JPEG	MPEG1/2 Layer 1/2/3, AAC/HEAAC, AC3/EAC3, LPCM/ADPCM, WMA	H.264: 1080Px2@25fps 1080P@ 50fps Other: 1080P@ 30fps" 50Mbit/sec
	flv	H.264, Sorenson H.263	MPEG1/2 Layer 3, AAC/HEAAC, LPCM/ADPCM	H.264: 1080Px2@25fps 1080P@ 50fps Other: 1080P@ 30fps" 50Mbit/ sec
	3gp,3g2	MPEG4, H.264		1920x1080 @ 30P 20Mbit/sec
	asf, wmv	MPEG2,4, XviD, H.264, VC1,WMV3	MPEG1/2 Layer 1/2/3, AAC/HEAAC, AC3/EAC3, LPCM, WMA	1080P@ 30fps 50Mbit/ sec
Music	.mp3	-	MPEG1 Layer 1/2/3 (MP3)	
	.wav		LPCM	
	WMA/ASF		WMA, WMA Pro	
	.m4a/ .aac		AAC, HEAAC	
Photo	.jpg .jpeg	Baseline JPEG		MAX WxH = 14592x12288 Up to 8 MegaByte
	.png	Progressive JPEG		
	.bmp	non-interlace		
	.png	interlace		
Subtitle	sub	-	-	
	srt	-	-	

Supported file formats in USB mode (for 22PFL2978H/12)

Media	File Extension	Format		Remarks
		Video	Audio	(Maximum resolution/Bit rate etc.)
Movie	.mpg .mpeg	MPEG1,2	MPEG Layer 1/2/3	MAX 1920x1080 @ 30P 20Mbit/sec
	.dat	MPEG1,2	MPEG2	
	.vob	MPEG2		
	.mkv	H.264, MPEG1,2,4	EAC3/ AC3	
	.mp4	MPEG4 Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta1/2 H.264	PCM/MP3	
	.avi	MPEG2, MPEG4		
		Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta1/2 H.264	PCM	
Music	.mp3	-	MPEG 1 Layer 1 / 2 (MP3)	32Kbps ~ 320Kbps(Bit rate) 32KHz ~ 48KHz(Sampling rate)
Photo	.jpg .jpeg	Baseline JPEG	-	max WxH = 15360x8640 4147200bytes
	.	Progressive JPEG	-	max WxH = 9600x6400 3840000bytes
	.bmp	-	-	max WxH = 9600x6400 3840000bytes
Subtitle	.sub .srt	-	-	-

All registered and unregistered trademarks are the property of their respective owners.
Specifications are subject to change without notice.
Philips and the Philips' shield emblem are registered trademarks of Koninklijke Philips Electronics N.V. and are used under license from Koninklijke Philips Electronics N.V.
2013 © TP Vision Netherlands B.V. All rights reserved.
www.philips.com